Access DB# 87126

SEARCH REQUEST FORM

		-		
	Scientific and Techn	ical Information Center	2/2/2-	
Requester's Full Name David Art Unit:	e Number 30 8 · 3 sion: R Kr Rm; 9B05 Dmitted, please prior	esults Format Preferred (circle):		
Title: S-Nitrosothiols as Agents for the Treatment of Circulatory Dysfunctions				
FRANCISCO PUBI NEGRIE; LLOREN	LL; RIUDAVETS, JU ГЕ, LYDIA CABEZA	ES; PEREZ-RASILLA, EDUAR AN-ANTONIO CERDA; ROFE ; SISO, ALICIA FERRER; ADF MORENO, JESUS MURAT; LL	S, CRISTINA ROHER, NURIA	
Earliest Priority Date	2: 1/27/99			
* * * *				
Applicants are claiming each of the two genera of compounds below.				
$R^{1} = C_{1-4} alk$ $R^{2} = phenyl$			RECEIV FRD 22	
X = -O-	or -S-	or -NCH ₃ -		
Point of Contagi P. Sheppard	= 0 0 H Point of Cont P. Sheppan Telephone number: (70	d 3) 308-4499	N=0 _OH	
**************************************	###***********************************	**************************************		
Searcher:	NA Sequence (#)		• •	
Searcher Phone #:	AA Sequence (#)			
Searcher Location:	Structure (#)			
Date Searcher Picked Up:	Bibliographic	Dr.Link		
Date Completed: 2/2//03	Litigation			
Searcher Prep & Review Time:	Fulltext	Sequence Systems		
Clerical Prep Time:	Patent Family	WWW/Internet		

___ WWW/Internet _

Other (specify)_

Other

PTO-1590 (8-01)

Online Time: ___

 $=\cdot$ fil hcaplus FILE 'HCAPLUS' ENTERED AT 16:22:49 ON 21 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

 \mathbb{C}^* pyright of the articles to which records in this database refer is held by the publishers listed in the FUBLISHER (FB) field (available for records published or updated in Chemical Abstracts after December $\mathbb{D} \ell$, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Sectety and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly promibated.

FILE COVERS 1967 - 21 Feb 2003 - VOL 135 ISS 9 FILE LAST UPDATED: 20 Feb 2003 (20030220/ED)

This file schtains CAS Registry Numbers for easy and accurate substance identification.

=" d stat que 110 STF

> 29 ()

11 28

3 27

C 8 C Ö

Ν.

VAR G3=ME/ET/I-FF/N-FR/I-HU/N-BU/T-BU/S-BU MODE ATTRIBUTES: NSPEC IS EC AT

DEFAULT MLEYEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GFAPH ATTFIPUTES:

FING(S) ARE ISCLATED OR EMBEDDED NUMBER OF NODES IS 12

STEREC ATTRIBUTES: NONE

23 SEA FILE=REGISTRY SSS FUL L5 L'.

L8 STR

∠ć Cb

C 25

Cb C C S N O 19 20 021 22 23 24

> S N C 16 17 18

VAP 31=0/S N VAR 32=14:11

VAR G3=14 d1 VAF G3=ME.ET'I-PR/N-PR/I-RU/N-BU/T-BU/S-BU

NOUE ATTRIBUTES:

DEFAULT MIEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

FING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF MODES IS 26

STEREO ATTRIBUTES: NONE

L10 3 SEA FILE=REGISTRY SUB=L7 3SS FUL L9 L10 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9

= .

= · d ibib abs hitrn 110 1

L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1000:535107 HCAPLUS

LOGUMENT NUMBER: 133:130471

TITLE: Aromatic and heterocyclic S-nitrosothiols useful as

agents for the treatment of circulatory dysfunctions Feptiles Moliner, Jose; Salas Perez-Rasilla, Eduardo; Fibill Coy, Francisco; Cerda Riudavets, Juan Antonio; Megrie Rofes, Cristina; Cabeza Llorente, Lydia; Ferrer

Sisc, Alicia; Trias Adroher, Nuria; Carbo Banus, Marcelli; Murat Moreno, Jesus; Michelena Llaguno,

Pearo

PATENT ASCIGNEE(S): Lacer, S.A., Spain.

SOURCE: FOT Int. Appl., 46 pp.

CODEN: PIKKD2

DOCUMENT TYPE: Fatent LANGUAGE: Cpanish

FAMILY ACC. NUM. COUNT: 1

PATENT INFOFMATION:

INVENTOR;3 :

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2000044714	A1 20000813	WO 2000-ES19	20000119
W: AE, AL,	AM, AT, AU, A., B.	A, BB, BG, BB, BY, CA,	, an, an, an, an,
CZ, DE,	DK, IM, FE, FI, G	B, III, III, III, III, III, III,	, :::, ::, ::, :::,
IS, JF,	RE, RG, KI, KE, K	Z, LC, LK, LK, LS, LT,	, NU, DV, MA, MD,

```
MG, MK, MN, MW, MM, NO, NZ, PL, PT, RO, RU, SE, SE, SG, SI, SK, SH, TY, TM, TR, TT, UA, UG, US, CZ, VN, YU, ZA, ZW, AM, AZ, BY,
                                            7.7, 715
                    MG, KE, MD, EU,
             PW: 0H, 6M, FE, LS, MW, FE, SL, SZ, FU, 0G, DW, AT, BE, CH, CY, DE, DR, ES, FI, FR, DB, GF, IE, IT, LU, MC, ML, PT, DE, BF, BJ, CF, CG, CI, CM, GA, SN, GW, ME, ME, NE, SN, TD, TG 147162 A1 20000816 ES 1999-15 1 1990127
       ES 2147163
       ES 2147162
                                   В1
                                           20010316
                                           21000±13
21011130
21011133
       CA 0353017
BR 01660:7390
                                   AA
                                                                   CA .11 10-2319027
                                                                                             2:100119
                                                                  BF .:: 00-7395
EF .:: 0-90.513
                                   Α
       EF 1157945
                                   A1
             P: AT, BE,
                                CH, DE, DE, BC, FR, GE, GR, IC, LC, LC, MC, SE, MC, PT,
                                10, 1V, FI, FG
A1 01-01-01-0
TO 01-01-01-0
                    IE, SI,
       GB (136 MOV)
                                                                  GE . (01-20 81
                                                                                             20 10119
       DE 10093 402
                                                                  DE .000-10 83902 20000119
       JF 0130538383
MG 0311043385
DS 0000038629
                                   72
                                           21021032
23010917
                                                                  JE .000-595971
                                                                                             200000119
                                   Α
                                                                  NC .001-3345
                                                                                             20010706
                                                                                             20010704
                                   Αl
                                           20020316
                                                                  US LC+1-332164
PRIORITY AFFIM. INFO.:
                                                                                    A 1 ++901A7
                                                              ES 1993-159
                                                              WO 2000-ES19
                                                                                       W 2000011∋
OTHER SOURCE IN :
                                     MARPAT Lil:150471
```

The invention relates to novel S-mitrosothhols derived from penicillamine or glutathiome, of general formula I [wh-rein A, E = Ph; or AH = CH2-Q-CH2 where I = 0, F, or N-R3; F1 = H or Cl-C4 alkyl; F1 = Cl-C1 altph. acyl or clutaric acid bended by "garra", -carbony group; F1 = OH or glycine radical wonded by peptidic linkage so that R2 = H when F1 = aliph. acyl, and R2 = glycine when F1 = glutamic acid]. The compds. exhibit vasodilating and idead plateler aggregation-inhibiting activity, and are useful in the treatment of directatory system dysfunctions, esp. cardiovascular dysfunctions. For instance, 2-amino-2-(4-mercaptotetrahydropyran-4-yl)acetic acid HC1 salt was neutralized with NaCH and then N-acetylated with AcCl in MeCN, and the N-acetyl deriv, was 2-nitrosylated with HC1 and NaNCH in aq. MeOH under semication, to give invention compd. If. In an in vitre assay for tascedilation of nonepinephrine-contracted arterial rings, II had an ECSO of 0.375 .mu.M, vs. 1.56 .mu.M for the known comparison compd. S-mitrosoglutathione, and 0.324-1.39 .mu.M for other invention compds. I.

287402-83-9P, N-Acetyl-2-amino-2-[4- 8-nitrosimercapy contentary decreases acid 287402-85-1P, N-Acetyl-2-amino-2-[4-(8-nitrosemercapy o)-1-methylpiperidin-4-yl]acetic acid 287402-86-2P, N-Acetyl-2-amino-becencyl-b-(8-nitrosimercapy o)-4-phenylbutantic acid EL: BAT (Fiological activity or effector, except adverse; BSU (Biological study, unclassified; SFN (Synthetic preparation); THU (Therapeutic use); BIGL (Fiological study); FREP (Preparation); USES (Uses) (target compd.; prepn. of arylalkyl-contg. S-nitrosothiols as cardiovascular agents)

REFERENCE COUNT: 3 THERE ARE G CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

-- ` \ = · fil caold FILE 'DAOLD' ENTERED AT 16:22:50 ON 21 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS) FILE COVERS 1907-1966 FILE BAST UPDATED: 01 May 1997 (19970501/UP) This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1997-1966 are available in the PAGE display formats. This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTEN file. Enter HELP FIRST for more information. = + 3.19LII D 1.3 = fil reg FILE 'REGISTRY' ENTERED AT 16:20:09 CM 21 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. CCFYRIGHT (C) 1003 American Cherical Society ACS) Property values tagged with IC are from the SIC "INITI data file provided by InfoChem. 20 FER 2003 HICKEST AN 17.391-11-8 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: 20 FEE 1003 HIGHEST AD 492991-99-8 TSCA INFORMATION NOW CURFENT THROUGH MAY 20, 2002 Please note that swarzh-term pricing does apply when conducting SmartSELECT searches. Crossover limit may been increased. See HELF CROSSOVER for details. Experimental and calculated property data are now available. See HELP FFORERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf = `. = : -= : d ide can l · tot ANSWER 1 OF 3 FEGISTRY COPYRIGHT 2003 ACS T. 9 287402-86-2 REGISTRY RN

Lukton 09 912164

```
\cdot2N
     Benzenebutanoic acid, .alpha.- acetylamino) - .beta.- (nitrosothio) - .beta.-
     (phenylmethyl) - (9C1) (CA INDEX NAME)
OTHER NAMES:
CHI
     N-Acetyl-2-amino-3-benzyl-3-(S-nitrosomercapto)-4-phenylbutanoic acid
FS
     3D CONCORD
:45
      019 H2T NT 04 S
SR
      E_{\rm C}
     STN Files: CA, CAPLUS, USPATFULL
    ARH 3 NO
HO2C OF C OR; Ph
          CH; Ph
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
                1 REFERENCES IN FILE CA (1962 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1962 TO DATE)
FEFERENCE 1: 133:150471
100
     ANSWER L .F 3 FEGISTRY COPYRIGHT 2003 ACS
     L-7402-:5-1 REGISTRY
F 11
     G-Paper:dineacetic acid, .alpha.-(acetylamino)-1-methyl-4-(nitrosothio)-
     (PCI) (CA INDEX NAME)
OTHER NAMES:
     M-Abetyl-2-amino-2-[4-[S-nitrosomercapto]-1-methylpiperidin-4-yl]acetic
     acid
PS
     30 CONTOBER
     210 H17 NE 04 S
:1F
SF.
     1
     JTN Files: CA, CAPLUS, USPATFULL
                   Ме
      11HAC
               1.
HO2C CH .
     DI S
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
               1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)
FEFERENCE 1: 188:150471
     ALSWER : OF 6 REGISTRY COFFRIGHT 2003 ACS
     .37432-33-9 FEGISTRY
511
-111
     LH-Pyran-4-acetic acid, .alpha.-(acetylamino)tetrahydro-4-(nitrosothio)-
      [PCI: (CA INDEX NAME)
OTHER MANES:
     M-Acetyl-1-aminc-2-[4-(S-nitrosomercapto)tetrahydropyran-4-yl]acetic acid
FS
     -I CONC. R.D.
     D: H14 N2 Q5 S
1151
     CA
JF
```

Lukton 09_912164

LC STN Files: CA, CAPLUS, USPATFULL

NHAc

ного сн

ON S

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE) 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 133:150471

=>

=>